

CLAIMS

1.- A mobile telephone device, comprising:

a storage device (1) comprising means for storing at least one application (3A, 4A);

5 means for remote access (OTA) management of the storage device based on the remote access (OTA) message reception by mobile telephony;

characterized in that

it further comprises

10 at least one data array manager module (5) for managing data arrays of at least one application stored in the storage device, said data array manager module comprising:

- means for receiving, by means of a remote access (OTA) message, at least one instruction for operating on at least one piece of data (4D) contained in an array of a specified application (4A);

15 - means for accessing said array according to said instruction; and

- means for performing at least one operation on said at least one piece of data (4D) in said array, according to said instruction.

2.- A device according to any of the previous claims, characterized in that the means for accessing said array comprise:

20 - means for asking the specified application (S3) for a reference of the array;

- means for receiving the requested reference (S4); and

- means for accessing the array based on said reference (S5).

3.- A device according to any of claims 1 and 2, characterized in that the application is a SAT or USAT application.

25 4.- A device according to any of the previous claims, characterized in that the storage device (1) is an integrated circuit card (ICC) with a subscriber identity module (SIM/USIM).

30 5.- A device according to any of the previous claims, characterized in that the data array manager module (5) is configured to be able to access arrays of a plurality of applications.

6.- A device according to any of claims 1-4, characterized in that the data array manager module is part of the specific application, the data array of which it must be able to access.

35 7.- A device according to the previous claim, characterized in that the data array manager module is an Application Programming Interface (API).

8.- A device according to any of the previous claims, characterized in that the remote access management means are based on the GSM 03.48 standard or on the 3GPP 23.048 standard.

5 9.- A device according to any of the previous claims, characterized in that it comprises a terminal (20) supporting SAT or USAT and supporting Data Download, and/or a class "e" terminal supporting the SIM Toolkit commands for channel management.

10 10.- A method for managing data in arrays of applications stored in a card (1) of a mobile telephony subscriber equipment, characterized in that it comprises the steps of:

- receiving a message (M1) from a remote access (OTA) server (10), with at least one instruction regarding at least one piece of data in one array of one application (4A) stored in the card;
- analyzing the instruction (S2);
- 15 - accessing the array (S5) based on the instruction;
- operating (S5) on said at least one piece of data in the array based on the instruction.

11.- A method according to claim 10, characterized in that the step of accessing the array comprises the steps of:

- 20
- asking the application for a reference of the array (S3);
 - receiving said reference (S4); and
 - accessing the array based on said reference (S5).

12.- A method according to any of claims 10 and 11, characterized in that

- the message (M1) is received in a terminal (20) of the subscriber equipment;
- 25 - the message is sent from the terminal to the card (1);
- a remote access (OTA) manager module (2) in the card forwards the instruction (M3) to a data array manager module (5) identified in the message.

13.- A method according to claim 12, characterized in that the message (M1) is of the Data Download type.

30 14.- A method according to claim 13, characterized in that the message is sent to the card (1) by means of the ENVELOPE command (M2).

15.- A method according to claim 12, characterized in that the message (M1) is sent to the card through a Bearer Independent Protocol-based channel.

35 16.- A method according to any of claims 14 and 15, characterized in that the instruction is forwarded to a data array manager module (5) identified by means of

the TAR field of the message.